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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,222	08/08/2001	Raymond M. Broemmelsiek	C4-1017	3136

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IP LEGAL DEPARTMENT
TYCO FIRE & SECURITY SERVICES
ONE TOWN CENTER ROAD
BOCA RATON, FL 33486

EXAMINER	
WONG, ALLEN C	
ART UNIT	**PAPER NUMBER**
2613	

DATE MAILED: 11/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/925,222	BROEMMELSIEK ET AL.	
	Examiner	Art Unit	
	Allen Wong	2613	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *22 July 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-10* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-3 and 6-10* is/are rejected.

7)☒ Claim(s) *4 and 5* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 7/22/05 have been fully read and considered but they are not persuasive.

Regarding lines 10-16 on page 7 and lines 2-4 on page 8 of applicant's remarks, applicant states that Gray does not disclose "a remote signal conversion means... for conversion between single-ended signals at said general purpose remote interface and differential signals on said conductor means." The examiner respectfully disagrees. In fig.1, Gray discloses the processor 300 controls the plurality of nodes along with the computer 400, where Gray's fig.2 discloses the specifics of the processor and the computer in that the camera 110 obtains images and there is camera ID embedded to signify a camera node for the corresponding camera. Then in Gray's fig.1, there is remote interface to access and control the plural camera nodes via "network" to other computers. Thus, Gray discloses "a remote signal conversion means... for conversion between single-ended signals at said general purpose remote interface and differential signals on said conductor means", as recited in claim 1.

Regarding lines 19-20 on page 8 of applicant's remarks, applicant asserts that Gray does not disclose selecting the next frame of video if no activity is present as recited in claim 9. The examiner respectfully disagrees. In fig.2, Gray discloses the use of vertical interval timing units for utilizing along with alarm sensors for detecting the existence or presence of activity or no activity during the observation of the video frames of the observed, monitored area, and when there is no activity, then Gray

discloses the movement or selection of the next video frame. Thus, Gray discloses selecting the next frame of video if no activity is present as recited in claim 9.

Regarding lines 6-12 on page 9 of applicant's remarks, applicant contends that Gray does not disclose embedding the unique number onto each frame of the video signal. The examiner respectfully disagrees. Gray's fig.2 discloses the specifics of the processor and the computer, and camera 110 obtains images where there is the camera ID embedded to represent a camera node for the corresponding camera. Then, in fig.1, Gray discloses the remote interface to access and control the plural camera nodes via "network" to other computers. Thus, Gray discloses embedding the unique number onto each frame of the video signal.

The rejection of claims 1-3 and 6-10 is maintained. Claims 4 and 5 are still objected to as containing allowable subject matter, and claims 4 and 5 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 6-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Gray (6,049,353).

Regarding claims 1-3, Gray discloses a wire harness apparatus for remote use with a camera node array having a plurality of camera nodes sharing a common set of conductors on a cable, and which electrically converts signals from and to the camera node array over a relatively long cable length, comprising:

conductor means for carrying power, video, and control signals over a relatively long distance (fig.1, note that the processor 300 has a conductor means and as seen in fig.2, the processor carries power, video and control signals where processor functions together with computer 400);

remote signal conversion means, connected to one end of said conductor means, for connection to a general-purpose remote interface to access and control the plurality of camera nodes, and for conversion between single-ended signals at said general purpose remote interface and differential signals on said conductor means (fig.1, note processor 300 controls the plurality of nodes along with the computer 400, in that fig.2, Gray discloses the specifics of the processor and the computer in that the camera 110 obtains images and there is camera ID embedded to signify a camera node for the corresponding camera, and in fig.1, that there is remote interface to access and control the plural camera nodes via "network" to other computers); and,

local signal conversion means, connected to the opposite end of said conductor means, for interface to said plurality of camera nodes for conversion between differential signals at said conductor means and single-ended signals at said camera node array (fig.2, note element 310, of processor 300, is the decoder that locally

decodes image data obtained by camera 110, thus image data obtained can be interfaced to the computer 400 for the user to view).

Regarding claims 6-8, Gray discloses that the individual camera nodes are accounted for and that selection of camera can be done by identifying the camera node of interest (fig.2, note camera ID is embedded by element 260 and that there is a camera ID registers 330 for obtaining camera node data).

Regarding claim 9, Gray discloses a method to individually select any one of a plurality of uniquely addressable camera nodes sharing a common set of conductors, comprising:

polling each camera node in succession for activity status within a field of view of the camera node during each video frame interval (fig.1, note processor 300 controls the plurality of nodes along with the computer 400, in that fig.2, Gray discloses the specifics of the processor and the computer in that the camera 110 obtains images and there is camera ID embedded to signify a camera node for the corresponding camera, and in fig.1, that there is remote interface to access and control the plural camera nodes via "network" to other computers);

selecting for the next frame of video the first camera node to respond with activity status within its field of view (fig.2, note the use of vertical interval timing units are utilized along with alarm sensors for detecting alarm conditions or activity while observing the monitored area); and,

selecting the next frame of video from the next adjacent camera node within the array if no activity is present such that all nodes source a single frame in succession if

no activity is present (fig.2, note the use of vertical interval timing units are utilized along with alarm sensors for detecting whether there is activity or no activity during the observation of the monitored area).

Regarding claim 10, Gray discloses a method to modify the video signal driven from any one of a plurality of uniquely addressable video camera nodes sharing a common video signal conductor such that the video signal is embedded with a unique number identifying the node, comprising:

synchronizing to a video signal associated with a current camera node (fig.1, note processor 300 controls the plurality of nodes along with the computer 400, in that fig.2, Gray discloses the specifics of the processor and the computer in that the camera 110 obtains images and there is camera ID embedded to signify a camera node for the corresponding camera, and in fig.1, that there is remote interface to access and control the plural camera nodes via "network" to other computers);

identifying a unique number associated with the current camera node during an interval in which the current camera node is driving the video signal onto a common video signal conductor (fig.1, note processor 300 controls the plurality of nodes along with the computer 400, in that element 260 embeds a camera ID for the corresponding camera); and,

embedding the unique number onto each frame of the video signal during the interval such that the unique number may be retrieved from the video signal (fig.2, Gray discloses the specifics of the processor and the computer in that the camera 110 obtains images and there is camera ID embedded to signify a camera node for the

corresponding camera, and in fig.1, that there is remote interface to access and control the plural camera nodes via "network" to other computers).

Allowable Subject Matter

1. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

2. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not specifically disclose the specifics of claim 4: wherein said remote signal conversion means converts a single-ended input transmit control signal to a differential output control signals, converts a differential input receive control signal to a single-ended output control signal, converts a differential input video signal to a single ended output video signal, and passes through alternating current power wherein each of said differential signals are connected to said conductor means and each of said single ended signals define said general purpose remote interface.

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (571) 272-7341. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen Wong
Primary Examiner
Art Unit 2613

AW

11/7/05